

TRUNKS
CENTRAL OFFICE AND TIE
OPERATION TESTS
608A PBX

1. GENERAL

1.01 This section describes a method of testing central office and tie trunk circuits when used with the 608A PBX switchboard.

1.02 The tests covered are:

A. Trunk Jack Sleeve Circuit: This test checks the sleeve for a foreign potential and the presence of sleeve ground when the trunk is seized.

B. Central Office Trunk Operation — Dial Area: This test checks the central office trunk for continuity of the tip and ring, and the circuit function of incoming and outgoing calls.

C. Central Office Trunk Operation — Manual Area: This test checks the central office trunk for continuity of the tip and ring, and the circuit function of incoming and outgoing calls.

D. Central Office Trunk — Night Jack: This test checks the continuity of the night jack to the central office trunk.

E. Tie Trunk Operation: This test checks tie trunks for continuity of the tip and ring and the circuit function of outgoing and incoming calls.

F. Busy Lamp Circuit: This test checks the operation of the busy lamp circuit.

G. Idle Indicating Lamp Circuit: This test checks the operation of the idle indicating lamp circuit.

1.03 Test B provides a sequence of trunk testing which prevents the subscriber from being charged when message rate service is provided.

1.04 Test E requires actions and verifications at the distant termination of the tie trunk.

1.05 Test G requires that all trunks in the same idle indicating group be made busy to check the chain circuit feature.

1.06 *Lettered Steps:* A letter a, b, c, etc, added to a step number in Part 3 of this section, indicates an action which may or may not be required depending on local conditions. The condition under which a lettered step or a series of lettered steps should be made is given in the ACTION column, and all steps governed by the same condition are designated by the same letter within a test. Where a condition does not apply, all steps designated by that letter should be omitted.

2. APPARATUS

Tests A through E

2.01 Attendant telephone set connected to PBX telephone jacks.

3. METHOD

| STEP | ACTION | VERIFICATION |
|--|---|--|
| A. Trunk Jack Sleeve Circuit | | |
| 1 | Operate TALK key. | TALK lamp lights. |
| 2 | Make busy test on trunk jack. | No click heard. |
| 3a | If testing multiple PBX — Insert plug of back cord into trunk jack at last multiple appearance. | |
| 4a | Make busy test at multiple appearances. | Click heard. |
| 5a | Disconnect cord. | |
| 6 | Operate RLS key. | TALK lamp extinguished. |
| B. Central Office Trunk Operation — Dial Area | | |
| 1 | Operate TALK key. | TALK lamp lights. |
| 2 | Insert plug of front cord into trunk jack. | Dial tone heard. |
| 3a | If testing trunk in hunting group — Dial trunk number under test. | On succeeding trunk — Trunk lamp lights. If testing last trunk in group, busy tone heard. |
| 4b | If testing trunk in nonhunting group — Dial ringback code. | |
| 5 | Disconnect cord. | On trunk in nonhunting group — Trunk lamp lights. |
| 6 | Insert plug of same front cord into jack under lighted trunk lamp. | Trunk lamps extinguished. Dial tone heard. |
| 7 | Disconnect cord. | |
| 8 | Operate RLS key. | TALK lamp extinguished. |
| C. Central Office Trunk Operation — Manual Area | | |
| 1 | Operate TALK key. | TALK lamp lights. |
| 2 | Insert plug of front cord into trunk jack. | Operator answers. Conversation satisfactory. |
| 3 | Request ringback on line, disconnect front cord. | Trunk lamp lights. |
| 4 | Insert plug of back cord into jack under lighted trunk lamp. | Trunk lamp extinguished. |
| 5 | Request disconnect, remove back cord. | |
| 6 | Operate RLS key. | TALK lamp extinguished. |

| STEP | ACTION | VERIFICATION |
|------|--------|--------------|
|------|--------|--------------|

D. Central Office Trunk — Night Jack

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|---|--|---|
| 1 | Operate TALK key. | TALK lamp lights. |
| 2 | Insert plug of front cord into night jack. | In dial area — Dial tone heard. In manual area — Operator answers. |
| 3 | Disconnect cord. | |
| 4 | Operate RLS key. | TALK lamp extinguished. |

E. Tie Trunk Operation**Tie Trunks Arranged for Manual Selection at Distant End**

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|---|--|-------------------------------|
| 1 | Call distant end, verify trunk number. | Conversation satisfactory. |
| 2 | Request distant end to disconnect, recall. | |
| 3 | Disconnect from trunk. | On recall, trunk lamp lights. |
| 4 | Answer recall, request disconnect. | Trunk lamp extinguished. |
| 5 | Disconnect from trunk. | |

Tie Trunks Not Arranged for Manual Selection (Dial Selected Only) at Distant End

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|-----|--|----------------------------|
| 6a | If only one trunk is provided to distant end— Test using procedure in Steps 1 through 5 except for verification of trunk number. | Same as Steps 1 through 5. |
| 7b | If more than one trunk is provided to distant end — Call distant end. | Conversation satisfactory. |
| 8b | Request distant end to disconnect. | |
| 9b | Disconnect from trunk. | |
| 10b | Repeat Steps 7b through 9b for each trunk. | |
| 11b | When last trunk is under test — Request distant end to disconnect and recall. | |

SECTION 538-080-667

| STEP | ACTION | VERIFICATION |
|-------------|--|-------------------------------|
| 12b | Disconnect from trunk. | On recall, trunk lamp lights. |
| 13b | Answer recall, request trunk be made busy at distant end, request recall on next trunk. | Trunk lamp extinguished. |
| 14b | Disconnect from trunk. | On recall, trunk lamp lights. |
| 15b | Repeat Steps 13b, 14b. | |
| 16b | When recall has been received on last trunk— Request distant end to remove make busy from all trunks and disconnect. | |
| 17b | Disconnect from trunk. | |

F. Busy Lamp Circuit

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|---|--|---|
| 1 | Insert plug of front cord into trunk jack. | At all appearances — Busy lamp lights. |
| 2 | Disconnect cord from trunk jack. | Busy lamp extinguished. |

G. Idle Indicating Lamp Circuit

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|---|---|--|
| 1 | When idle indicating lamp is lighted — Insert plug of front cord into first trunk jack of idle indicating group. | At all appearances — Idle indicating lamp extinguished. Idle indicating lamp of next idle trunk in group lights. |
| 2 | Leave cord in jack, repeat Step 1 until all trunks in idle indicating group are seized. | Same as Step 1. Last lamp extinguished when last trunk is seized. |
| 3 | Disconnect all cords. | Idle indicating lamp lights at first trunk in group. |